CLAIMS

We claim:

1. A radio control system in a communication device, the radio control system comprising:
   (a) a sensor capable of detecting a change in use mode of said device;
   (b) a power controller connected to said sensor to determine a power configuration based on the use mode; and
   (c) a power regulator connected to said power controller to apply the power configuration to a transmitted signal.
2. The apparatus of claim 1 further comprising at least one antenna coupled to said power regulator.
3. The apparatus of claim 2 wherein said at least one antenna is moveable.
4. The apparatus of claim 2 wherein the surrounding structure of said at least one antenna is moveable.
5. The apparatus of claim 3 wherein said sensor is coupled to said at least one antenna to sense the position of said at least one antenna as the change in use mode.
6. The apparatus of claim 1 wherein said power controller further comprises a transmitter connected to said power controller wherein said transmitter uses the power configuration.
7. The apparatus of claim 1 wherein said power controller further comprises an interrupt service routine triggered by said sensor, said interrupt service routine determining the power configuration based on the sensed change in use mode.
8. The apparatus of claim 1 wherein said power configuration further comprises a maximum power level.
9. The apparatus of claim 1 wherein said power configuration comprises a minimum transmit power level.
10. The apparatus of claim 1 wherein the communication device is capable of operating in a use mode selected from the group consisting of:

(a) an “In Holster” use mode, wherein said device is secured within the device holster;

(b) an “In Hand” use mode, wherein said device is held in the user’s hand;

(c) a “By Head” use mode, wherein said device is positioned close to the user’s head;

(d) an “In Cradle” use mode”, wherein said device is secured within the device cradle;

(e) an “In Vehicle-Cradle” use mode, wherein said device is secured within an In Vehicle-Cradle;

(f) an “Antenna Drawn” use mode, wherein said device antenna is drawn outwards;

(g) an “External Antenna” use mode, wherein an external antenna is attached to said device;

(h) a “Device Lid Opened” use mode, wherein said device includes a device lid and said lid;

(i) a “Headset Connected” use mode, wherein a headset or earpiece is connected to said device; and

(j) a “User Keyboard Activity” use mode, wherein said device includes a keyboard and there is keyboard activity on the keyboard.

11. A method of controlling a power configuration in a communication device, comprising the steps of:

(a) detecting a use mode;

(b) changing the power configuration as a function of the use mode; and

(c) communicating at the changed power configuration.

12. The apparatus of claim 1 wherein said power configuration supports a plurality of antenna patterns.

13. The apparatus of claim 1 wherein said power controller tracks a plurality of different use modes wherein the detected use mode is a combination of different use modes.

14. A radio control system in a communication device comprising:

(a) a sensor capable of detecting a change in use mode of said device;

(b) a radio controller connected to said sensor to determine a radio configuration based on the use mode; and

(c) a radio configuration module connected to said radio controller to apply the radio configuration to the transmitted signal.

15. The apparatus of claim 14 wherein said radio configuration further comprises a transmission rate.

16. The apparatus of claim 14 wherein said radio configuration further comprises an antenna radiating pattern.

17. The apparatus of claim 14 wherein said radio configuration further comprises encoding methods.

18. The apparatus of claim 14 wherein said radio configuration further comprises modulation methods.

19. The apparatus of claim 14 wherein said radio configuration further comprises power control attributes.

20. The apparatus of claim 1 wherein said sensor includes a proximity sensor.